



USAV20020121USNP.ST25.txt  
SEQUENCE LISTING

<110> LI, Zhuyin Julie  
MEHDI, Shujaath

<120> METHOD FOR ASSAYING COMPOUNDS THAT DECREASE THE ACTIVITY OF POLY(ADP-RIBOSE)-POLYMERASE (PARP)

<130> USAV2002/0121USNP

<140> 10/665,864  
<141> 2003-09-18

<150> US 60/412,136  
<151> 2002-09-19

<150> GB 0301628.4  
<151> 2003-01-24

<160> 1

<170> PatentIn version 3.2

<210> 1  
<211> 1042  
<212> PRT  
<213> Homo sapiens

<400> 1

Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr  
1 5 10 15

Thr Glu Asn Leu Tyr Phe Gln Gly Ala Met Gly Ser Met Ala Glu Ser  
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Ser Asp Lys Leu Tyr Arg Val Glu Tyr Ala Lys Ser Gly Arg Ala Ser  
35 40 45

Cys Lys Lys Cys Ser Glu Ser Ile Pro Lys Asp Ser Leu Arg Met Ala  
50 55 60

Ile Met Val Gln Ser Pro Met Phe Asp Gly Lys Val Pro His Trp Tyr  
65 70 75 80

His Phe Ser Cys Phe Trp Lys Val Gly His Ser Ile Arg His Pro Asp  
85 90 95

Val Gln Val Asp Gly Phe Ser Glu Leu Arg Trp Asp Asp Gln Gln Lys  
100 105 110

Val Lys Lys Thr Ala Glu Ala Gly Gly Val Thr Gly Lys Gly Gln Asp  
115 120 125

Gly Ile Gly Ser Lys Ala Glu Lys Thr Leu Gly Asp Phe Ala Ala Glu  
Page 1

## USAV20020121USNP.ST25.txt

130                   135                   140  
Tyr Ala Lys Ser Asn Arg Ser Thr Cys Lys Gly Cys Met Glu Lys Ile  
145                   150                   155                   160  
  
Glu Lys Gly Gln Val Arg Leu Ser Lys Lys Met Val Asp Pro Glu Lys  
165                   170                   175  
  
Pro Gln Leu Gly Met Ile Asp Arg Trp Tyr His Pro Gly Cys Phe Val  
180                   185                   190  
  
Lys Asn Arg Glu Glu Leu Gly Phe Arg Pro Glu Tyr Ser Ala Ser Gln  
195                   200                   205  
  
Leu Lys Gly Phe Ser Leu Leu Ala Thr Glu Asp Lys Glu Ala Leu Lys  
210                   215                   220  
  
Lys Gln Leu Pro Gly Val Lys Ser Glu Gly Lys Arg Lys Gly Asp Glu  
225                   230                   235                   240  
  
Val Asp Gly Val Asp Glu Val Ala Lys Lys Lys Ser Lys Lys Glu Lys  
245                   250                   255  
  
Asp Lys Asp Ser Lys Leu Glu Lys Ala Leu Lys Ala Gln Asn Asp Leu  
260                   265                   270  
  
Ile Trp Asn Ile Lys Asp Glu Leu Lys Lys Val Cys Ser Thr Asn Asp  
275                   280                   285  
  
Leu Lys Glu Leu Leu Ile Phe Asn Lys Gln Gln Val Pro Ser Gly Glu  
290                   295                   300  
  
Ser Ala Ile Leu Asp Arg Val Ala Asp Gly Met Val Phe Gly Ala Leu  
305                   310                   315                   320  
  
Leu Pro Cys Glu Glu Cys Ser Gly Gln Leu Val Phe Lys Ser Asp Ala  
325                   330                   335  
  
Tyr Tyr Cys Thr Gly Asp Val Thr Ala Trp Thr Lys Cys Met Val Lys  
340                   345                   350  
  
Thr Gln Thr Pro Asn Arg Lys Glu Trp Val Thr Pro Lys Glu Phe Arg  
355                   360                   365  
  
Glu Ile Ser Tyr Leu Lys Lys Leu Lys Val Lys Lys Gln Asp Arg Ile  
370                   375                   380

USAV20020121USNP.ST25.txt

Phe Pro Pro Glu Thr Ser Ala Ser Val Ala Ala Thr Pro Pro Pro Ser  
385 390 395 400

Thr Ala Ser Ala Pro Ala Ala Val Asn Ser Ser Ala Ser Ala Asp Lys  
405 410 415

Pro Leu Ser Asn Met Lys Ile Leu Thr Leu Gly Lys Leu Ser Arg Asn  
420 425 430

Lys Asp Glu Val Lys Ala Met Ile Glu Lys Leu Gly Gly Lys Leu Thr  
435 440 445

Gly Thr Ala Asn Lys Ala Ser Leu Cys Ile Ser Thr Lys Lys Glu Val  
450 455 460

Glu Lys Met Asn Lys Lys Met Glu Glu Val Lys Glu Ala Asn Ile Arg  
465 470 475 480

Val Val Ser Glu Asp Phe Leu Gln Asp Val Ser Ala Ser Thr Lys Ser  
485 490 495

Leu Gln Glu Leu Phe Leu Ala His Ile Leu Ser Pro Trp Gly Ala Glu  
500 505 510

Val Lys Ala Glu Pro Val Glu Val Val Ala Pro Arg Gly Lys Ser Gly  
515 520 525

Ala Ala Leu Ser Lys Lys Ser Lys Gly Gln Val Lys Glu Glu Gly Ile  
530 535 540

Asn Lys Ser Glu Lys Arg Met Lys Leu Thr Leu Lys Gly Gly Ala Ala  
545 550 555 560

Val Asp Pro Asp Ser Gly Leu Glu His Ser Ala His Val Leu Glu Lys  
565 570 575

Gly Gly Lys Val Phe Ser Ala Thr Leu Gly Leu Val Asp Ile Val Lys  
580 585 590

Gly Thr Asn Ser Tyr Tyr Lys Leu Gln Leu Leu Glu Asp Asp Lys Glu  
595 600 605

Asn Arg Tyr Trp Ile Phe Arg Ser Trp Gly Arg Val Gly Thr Val Ile  
610 615 620

Gly Ser Asn Lys Leu Glu Gln Met Pro Ser Lys Glu Asp Ala Ile Glu  
625 630 635 640

USAV20020121USNP.ST25.txt

His Phe Met Lys Leu Tyr Glu Glu Lys Thr Gly Asn Ala Trp His Ser  
645 650 655

Lys Asn Phe Thr Lys Tyr Pro Lys Lys Phe Tyr Pro Leu Glu Ile Asp  
660 665 670

Tyr Gly Gln Asp Glu Glu Ala Val Lys Lys Leu Thr Val Asn Pro Gly  
675 680 685

Thr Lys Ser Lys Leu Pro Lys Pro Val Gln Asp Leu Ile Lys Met Ile  
690 695 700

Phe Asp Val Glu Ser Met Lys Lys Ala Met Val Glu Tyr Glu Ile Asp  
705 710 715 720

Leu Gln Lys Met Pro Leu Gly Lys Leu Ser Lys Arg Gln Ile Gln Ala  
725 730 735

Ala Tyr Ser Ile Leu Ser Glu Val Gln Gln Ala Val Ser Gln Gly Ser  
740 745 750

Ser Asp Ser Gln Ile Leu Asp Leu Ser Asn Arg Phe Tyr Thr Leu Ile  
755 760 765

Pro His Asp Phe Gly Met Lys Lys Pro Pro Leu Leu Asn Asn Ala Asp  
770 775 780

Ser Val Gln Ala Lys Val Glu Met Leu Asp Asn Leu Leu Asp Ile Glu  
785 790 795 800

Val Ala Tyr Ser Leu Leu Arg Gly Ser Asp Asp Ser Ser Lys Asp  
805 810 815

Pro Ile Asp Val Asn Tyr Glu Lys Leu Lys Thr Asp Ile Lys Val Val  
820 825 830

Asp Arg Asp Ser Glu Glu Ala Glu Ile Ile Arg Lys Tyr Val Lys Asn  
835 840 845

Thr His Ala Thr Thr His Asn Ala Tyr Asp Leu Glu Val Ile Asp Ile  
850 855 860

Phe Lys Ile Glu Arg Glu Gly Glu Cys Gln Arg Tyr Lys Pro Phe Lys  
865 870 875 880

Gln Leu His Asn Arg Arg Leu Leu Trp His Gly Ser Arg Thr Thr Asn  
885 890 895

USAV20020121USNP.ST25.txt

Phe Ala Gly Ile Leu Ser Gln Gly Leu Arg Ile Ala Pro Pro Glu Ala  
900 905 910

Pro Val Thr Gly Tyr Met Phe Gly Lys Gly Ile Tyr Phe Ala Asp Met  
915 920 925

Val Ser Lys Ser Ala Asn Tyr Cys His Thr Ser Gln Gly Asp Pro Ile  
930 935 940

Gly Leu Ile Leu Leu Gly Glu Val Ala Leu Gly Asn Met Tyr Glu Leu  
945 950 955 960

Lys His Ala Ser His Ile Ser Lys Leu Pro Lys Gly Lys His Ser Val  
965 970 975

Lys Gly Leu Gly Lys Thr Thr Pro Asp Pro Ser Ala Asn Ile Ser Leu  
980 985 990

Asp Gly Val Asp Val Pro Leu Gly Thr Gly Ile Ser Ser Gly Val Asn  
995 1000 1005

Asp Thr Ser Leu Leu Tyr Asn Glu Tyr Ile Val Tyr Asp Ile Ala  
1010 1015 1020

Gln Val Asn Leu Lys Tyr Leu Leu Lys Leu Lys Phe Asn Phe Lys  
1025 1030 1035

Thr Ser Leu Trp  
1040